

10765783_CLS1.txt

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10765783 on February 14, 2006

Original Classifications

6	178/18.04
6	345/173
4	307/116
3	84/658
3	235/472.01
3	341/33
3	348/96
2	4/623
2	62/137
2	178/18.06
2	219/124.34
2	250/221
2	257/59
2	323/322
2	345/178
2	356/602
2	374/150
2	427/8
2	431/278

Cross-Reference Classifications

8	345/174
7	345/177
5	345/173
4	178/18.01
4	178/18.03
4	178/18.06
4	235/462.45
4	341/33
3	250/559.33
3	307/652
3	327/517
3	345/179
2	4/628
2	33/707
2	73/864.24
2	84/659
2	126/39E
2	126/39N
2	137/883
2	137/887
2	178/18.05
2	178/19.02
2	200/600
2	215/11.2
2	219/137.71
2	235/462.14
2	235/462.43
2	235/462.44
2	250/221
2	250/223B
2	250/237G
2	250/559.22
2	251/65
2	257/E21.703
2	257/E27.111
2	307/115
2	307/116

10765783_CLS1.txt

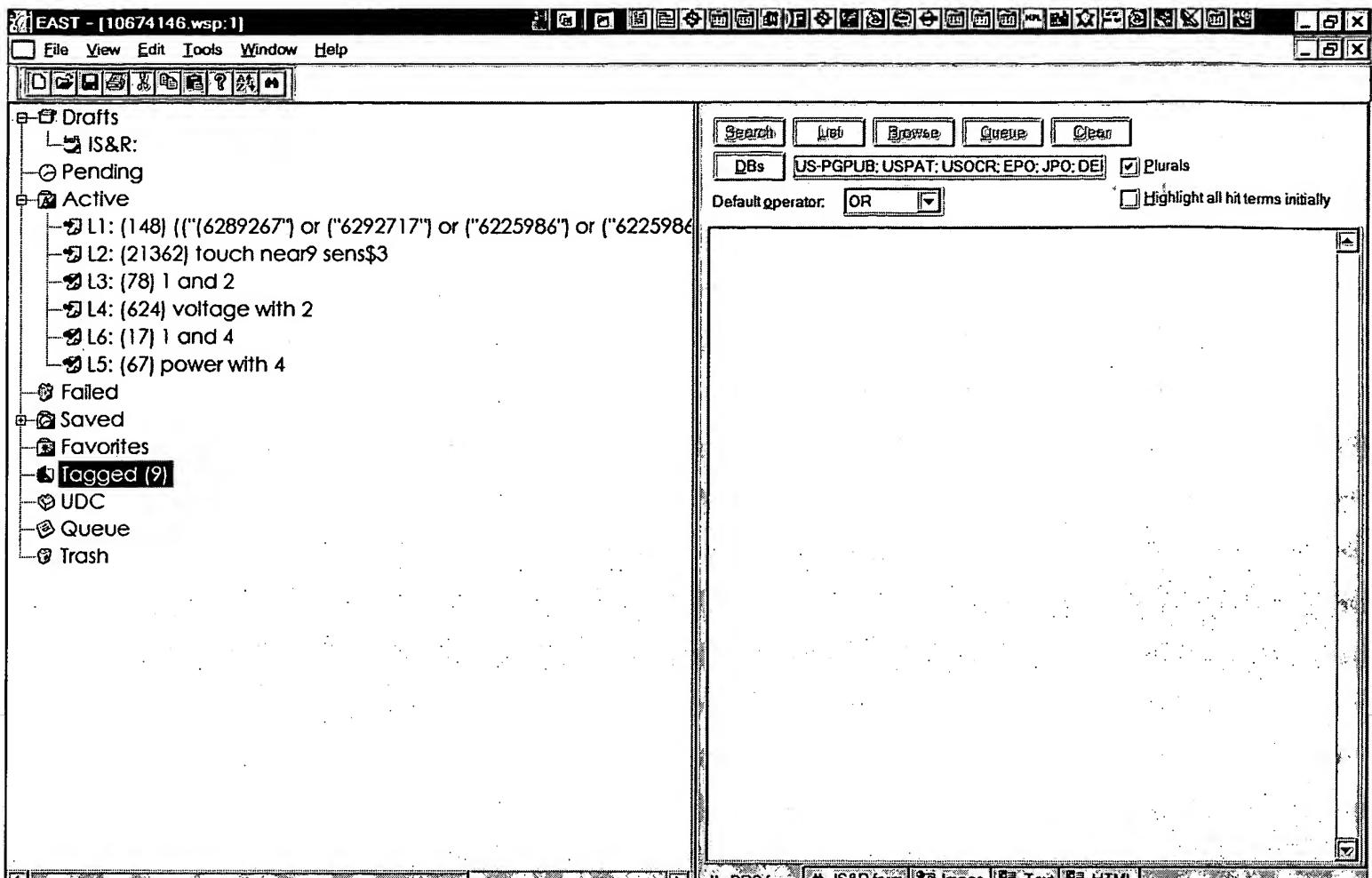
2 307/125
2 307/140
2 340/586
2 341/34
2 345/156
2 345/175
2 348/103
2 356/442
2 367/907
2 399/16
2 399/371
2 431/256
2 431/266

Combined Classifications

11 345/173
8 345/174
8 345/177
7 178/18.04
7 341/33
6 178/18.06
6 307/116
5 178/18.03
4 178/18.01
4 235/462.45
4 250/221
3 84/658
3 178/18.05
3 200/600
3 235/472.01
3 250/559.33
3 307/652
3 327/517
3 345/175
3 345/179
3 348/96
3 356/602
2 4/623
2 4/628
2 33/707
2 62/137
2 73/304C
2 73/725
2 73/864.24
2 84/659
2 126/39E
2 126/39N
2 137/883
2 137/887
2 178/19.02
2 178/20.04
2 215/11.2
2 219/124.34
2 219/137.71
2 222/52
2 235/462.14
2 235/462.42
2 235/462.43
2 235/462.44
2 250/223B
2 250/237G
2 250/559.22
2 251/65

10765783_CLS1.txt

2 257/59
2 257/E21.703
2 257/E27.111
2 307/115
2 307/125
2 307/140
2 323/322
2 340/586
2 340/825.19
2 341/26
2 341/34
2 345/156
2 345/178
2 348/103
2 356/442
2 358/400
2 362/156
2 367/907
2 374/150
2 399/16
2 399/371
2 427/8
2 431/256
2 431/266
2 431/278



	U	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Cls	
1	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 6822683 B1	20041123	7	Image sensing apparatus and method of controlling operation	348/333.13	348/207.99; 348/221.1;		Torkai; T
2	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 20060022959 A1	20060202	15	Touch screen with selective touch sources	345/173			Geagha
3	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 20020036621 A1	20020328	7	Methods and apparatus for supplying power to touch input	345/173			Liu, Qian
4	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 6753853 B1	20040622	25	Low power dissipation touch plane. Interface circuit	345/173	178/18.05		Dotson;
5	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 4816698 A	19890328	8	Touch control circuit for incandescent lamps and the	307/116	307/114; 315/362;		Hook; G
6	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5650597 A	19970722	25	Capacitive touch sensor	178/18.06	178/19.04; 341/33;		Redmay
7	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5801340 A	19980901	23	Proximity sensor	178/20.04	341/33; 345/174		Peter; W
8	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5783875 A	19980721	6	Touch sensor circuit	307/116	307/125; 307/126;		Jaros; Je
9	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 4581483 A	19860408	13	Interface circuitry for interconnecting touch tablet	178/20.01	345/174		Ralston;



US005875311A

United States Patent [19]

Bertram et al.

[11] Patent Number: 5,875,311

[45] Date of Patent: *Feb. 23, 1999

[54] COMPUTER SYSTEM WITH TOUCHPAD SUPPORT IN OPERATING SYSTEM

[75] Inventor: Randal Lee Bertram; James Lee Combs, both of Lexington, Ky.

[73] Assignee: International Business Machines Corporation, Armonk, N.Y.

[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,613,137.

[21] Appl. No.: 691,049

[22] Filed: Aug. 1, 1996

Related U.S. Application Data

[63] Continuation of Ser. No. 210,510, Mar. 18, 1994, Pat. No. 5,613,137.

[51] Int. Cl. 6 C06F 15/00

[52] U.S. Cl. 395/309; 395/892; 395/893;

395/500; 395/800.32

[58] Field of Search 395/820, 309,

395/892, 893, 500, 800.32

[56] References Cited

U.S. PATENT DOCUMENTS

4,202,041	5/1980	Kaplow et al	341/26
4,827,410	5/1989	Correa	395/354
5,086,503	2/1992	Chung et al	341/22
5,165,015	11/1992	Coggins	395/256
5,613,137	3/1997	Bertram et al	395/309

Primary Examiner—Larry D. Donaghue

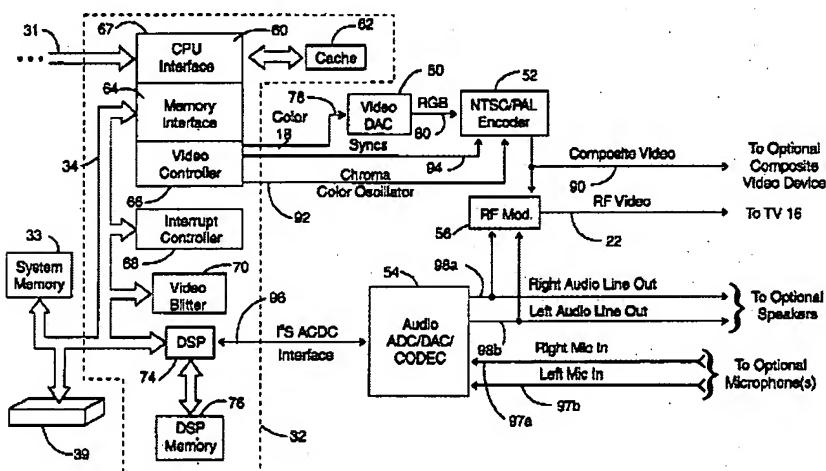
Assistant Examiner—John Follansbee

Attorney, Agent, or Firm—Anthony N. Magistrale

[57] ABSTRACT

A computer system comprising a central processing unit (CPU) configured to accept coordinate type data from a touchpad or the like. The CPU has an operating system executing thereon with special support for interfacing to the touchpad. The operating system has the following capabilities: (1) mapping out geometric regions of the touchpad and assign the regions to specific region identifiers responsive to application programs and (2) determining the region identifier of a touched region and passing that region identifier to the application program. Support is also provided for changing the units of the commands used to define the regions.

24 Claims, 11 Drawing Sheets



US-PAT-NO:

5875311

DOCUMENT-IDE

NTIFIER: US
5875311 ATITLE:
Computer system
with touchpad
support in
operating
system

KWIC

Detailed
Description Text -
DETX (60):FIG. 2F shows
the slot 114 that
retains the overlay
102 on three
sides.Also shown in that
figure are the
touchpad sensor
122, an overlay
sensor 124, a
cavity 126 for
storing a plurality
of template
overlays 102, and
a...substantially rigid
base 127 made of
the same material
as the enclosure
100that provides a
resistive force
sufficient to allow
a touch of the
sensor 122
to be detected.Detailed
Description Text -
DETX (61):The touchpad
sensor 122 is
located proximate
to said pad
surface 110 and
is...configured in such
a manner that
pressure on or
near the pad
surface 110 by
the
finger, stylus 21,
or the like allows
the sensor 122 to
detect the location
of
the touch.Detailed
Description Text -
DETX (73):The coordinate
sensor 122 and
overlay sensor
124 are as
described above
inthe text
accompanying
FIG. 2. The
coordinate
determining
circuitry 202 is in
circuit
communication
with the
coordinate sensor
122, the interface

Details Text Image HTML Full

U	1	Document	Issue Date	Patent	Current	Current	Title
1	<input type="checkbox"/>	US 20050	200508	12	73/865,4	702/150	Data input device
2	<input type="checkbox"/>	US 60292	200002	22	710/73	345/173	Input tablet system with u
3	<input checked="" type="checkbox"/>	US 54044	199504	19	710/73	345/173	Recognizing the necessit
4	<input type="checkbox"/>	US 65678	200305	10	710/58	710/60	Input device for informati
5	<input type="checkbox"/>	US 58753	199902	26	710/305	710/72	Computer system with to
6	<input type="checkbox"/>	US 66812	200401	11	710/16	345/156	Dual pointing screen cur
7	<input type="checkbox"/>	US 69037	200506	12	345/156	345/173	Computer system having

Details Text Image HTML

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